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APPLICANT : AGRICULTURE FORESTRY &
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TITLE : METHOD FOR PRODUCING
UNDECOMPOSED SILK FIBROIN
SOLUTION AND SKIN CARE AGENT
CONTAINING THE SAME

4°C、6日後
CaCl₂(M)
0.15 3 4 4.5



←フィブロイン
H鎖

← フィブロイン
L鎖

SDS-PAGE
(2/15% gel)

ABSTRACT : PROBLEM TO BE SOLVED: To store an undecomposed silk fibroin for a long time in a state of aqueous solution without decomposing and to obtain an ointment, wound coating cream, wound healing agent, or cosmetics as a skin care material using a stable undecomposed silk fibroin solution since the undecomposed silk fibroin has a growth-promoting action for fibroblast derived from human skin.

SOLUTION: In this method for producing the satisfactory undecomposed silk fibroin solution with a stability in storage, the undecomposed silk fibroin solution obtained by degumming a fresh cocoon, a cocoon shell or cocoon filament of a dried cocoon or cooked cocoon, a raw silk, a silk fabric, or its remaining filament or waste cocoon is dialized with an aqueous solution containing calcium ions or magnesium ions to obtain the undecomposed silk fibroin solution at a concentration of 0.03-2.0 M calcium ion or magnesium ion.

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